

NOVEMBER/DECEMBER 2023

CIM53 — PYTHON PROGRAMMING

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List any four features of python language.
2. Define comments.
3. What is an exception?
4. Write the syntax of while loop in python.
5. State the uses of tuple in python.
6. List different types of inheritance.
7. Name any four built in functions in file handling in python.
8. What is the difference between r+ and w+ mode?
9. Define CGI.
10. Write few lines about PostgreSQL server.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) List and explain various types of operators in python.

Or

- (b) Develop a python program for swapping of two numbers with and without using temporary variables.

12. (a) Implement python program to find sum of natural numbers.

Or

- (b) Explain the differences between Raising and User defined exceptions in python.

13. (a) Discuss briefly about binding and method invocation in python.

Or

- (b) Implement python program using five built in functions.

14. (a) Design a Python program to count the number of words in a text file.

Or

- (b) Describe Command line arguments in python with an example.

15. (a) Elaborate: Python Database Application Programmer's Interface.

Or

- (b) Write a short note on Object Relational Managers.



SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Enumerate the list and its methods with examples.

17. Discuss briefly about variable length arguments with example program.

18. Elaborate the differences between instance attributes and class attributes in python.

19. Implement python program to read content of one file ("Temp.txt") and write file content into another file named as ("Text.txt").

20. Describe the process of how to build CGI Applications in python.